



6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

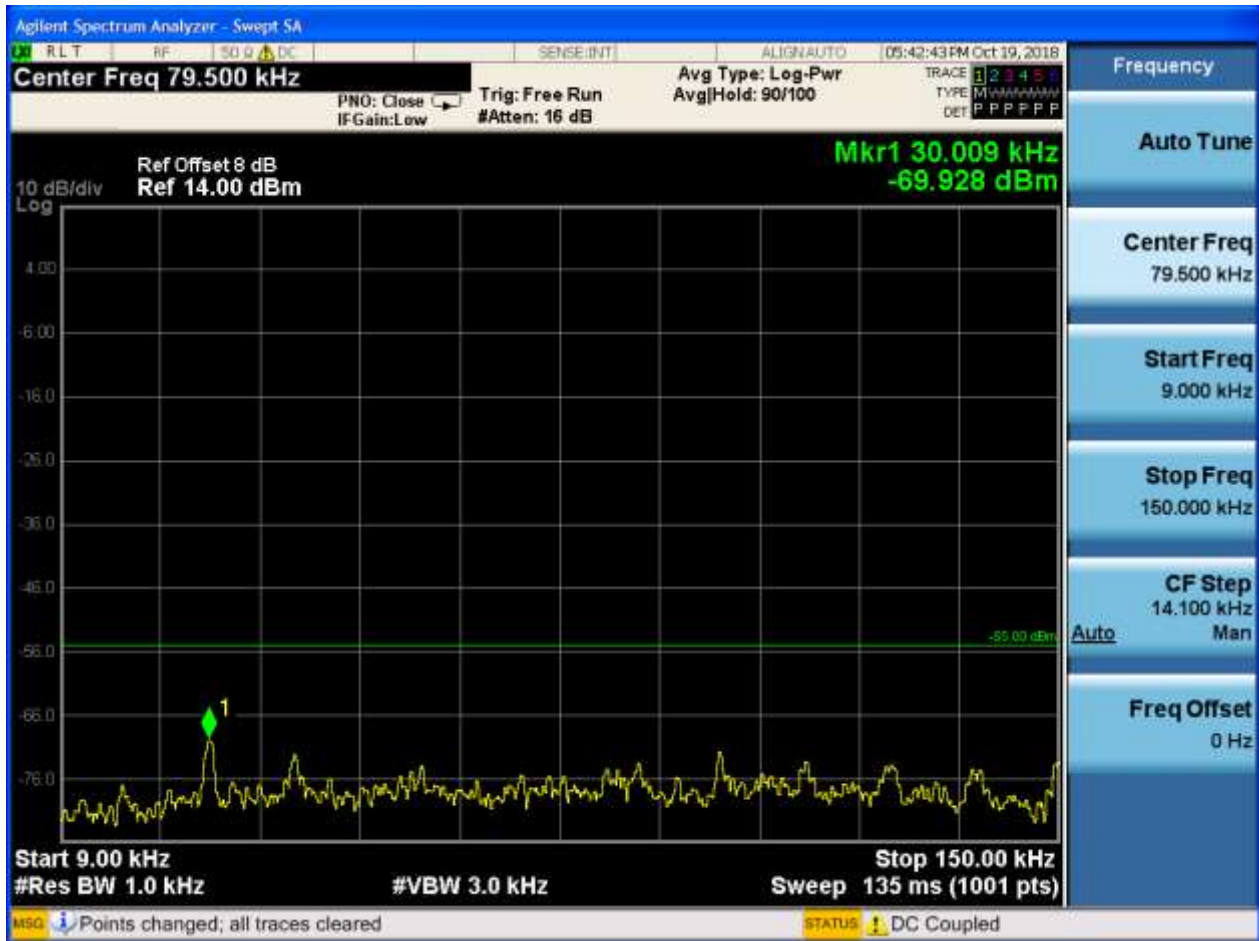






6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0







6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0







6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0







6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0







6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0







6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0







6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0







6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





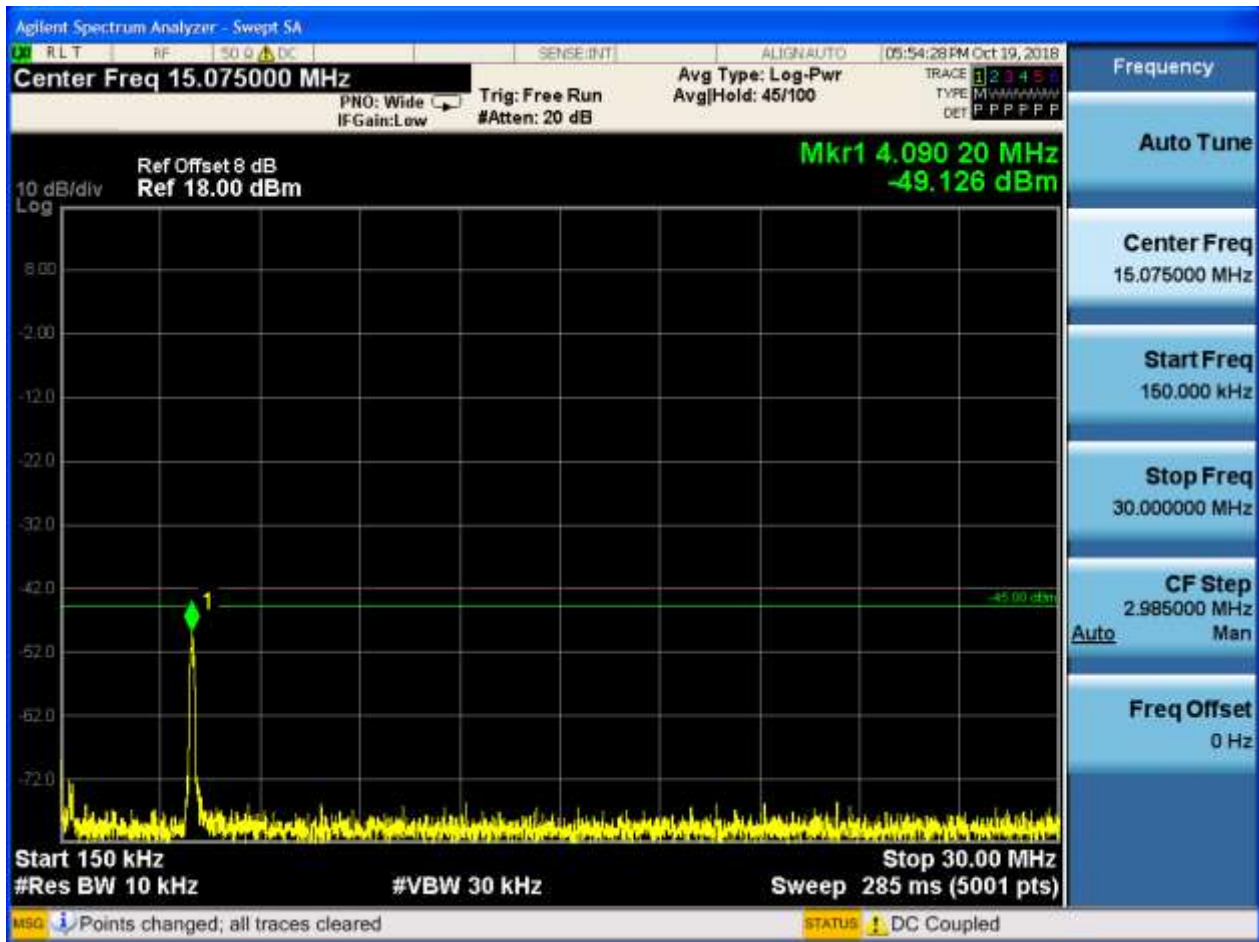




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

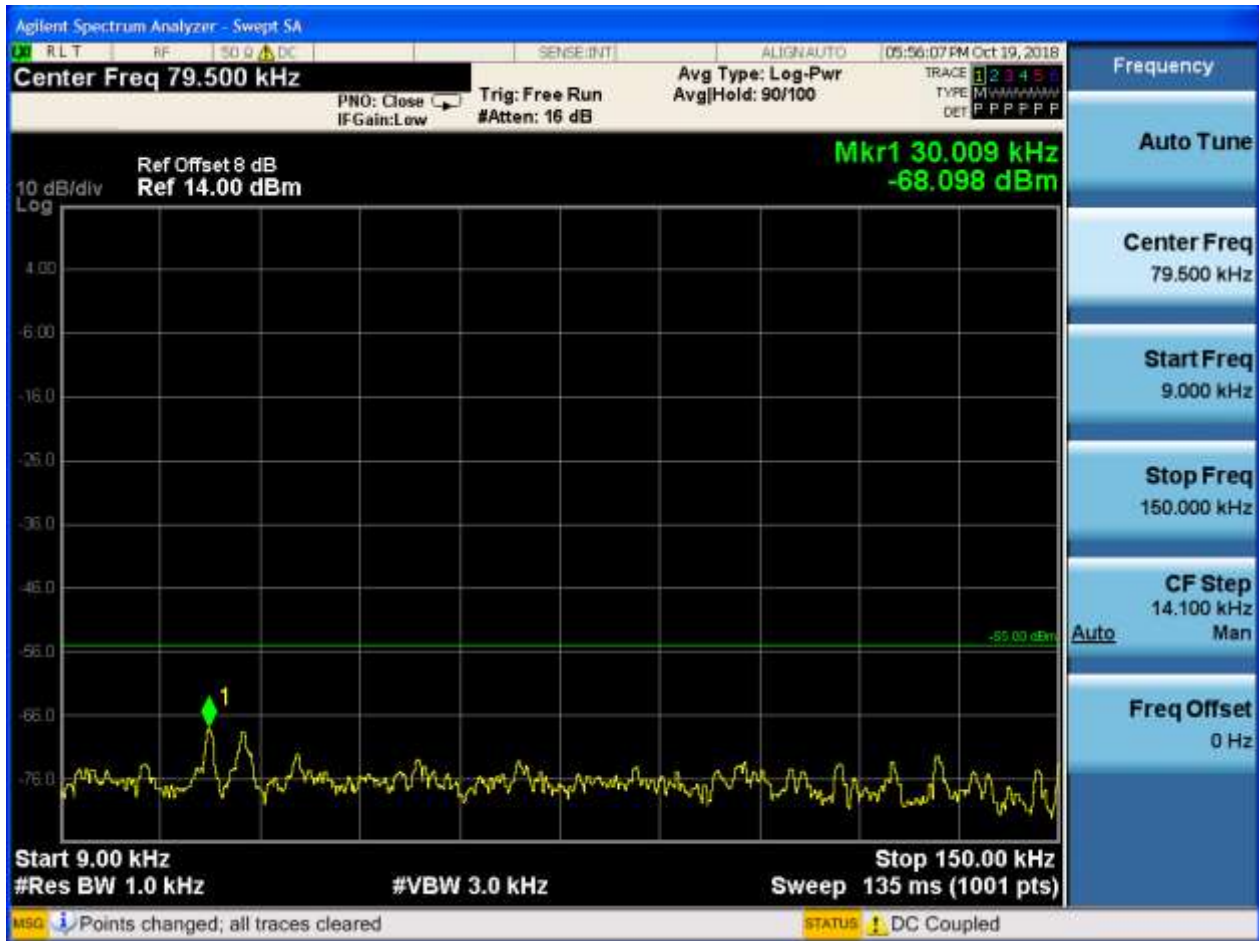






6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0







6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



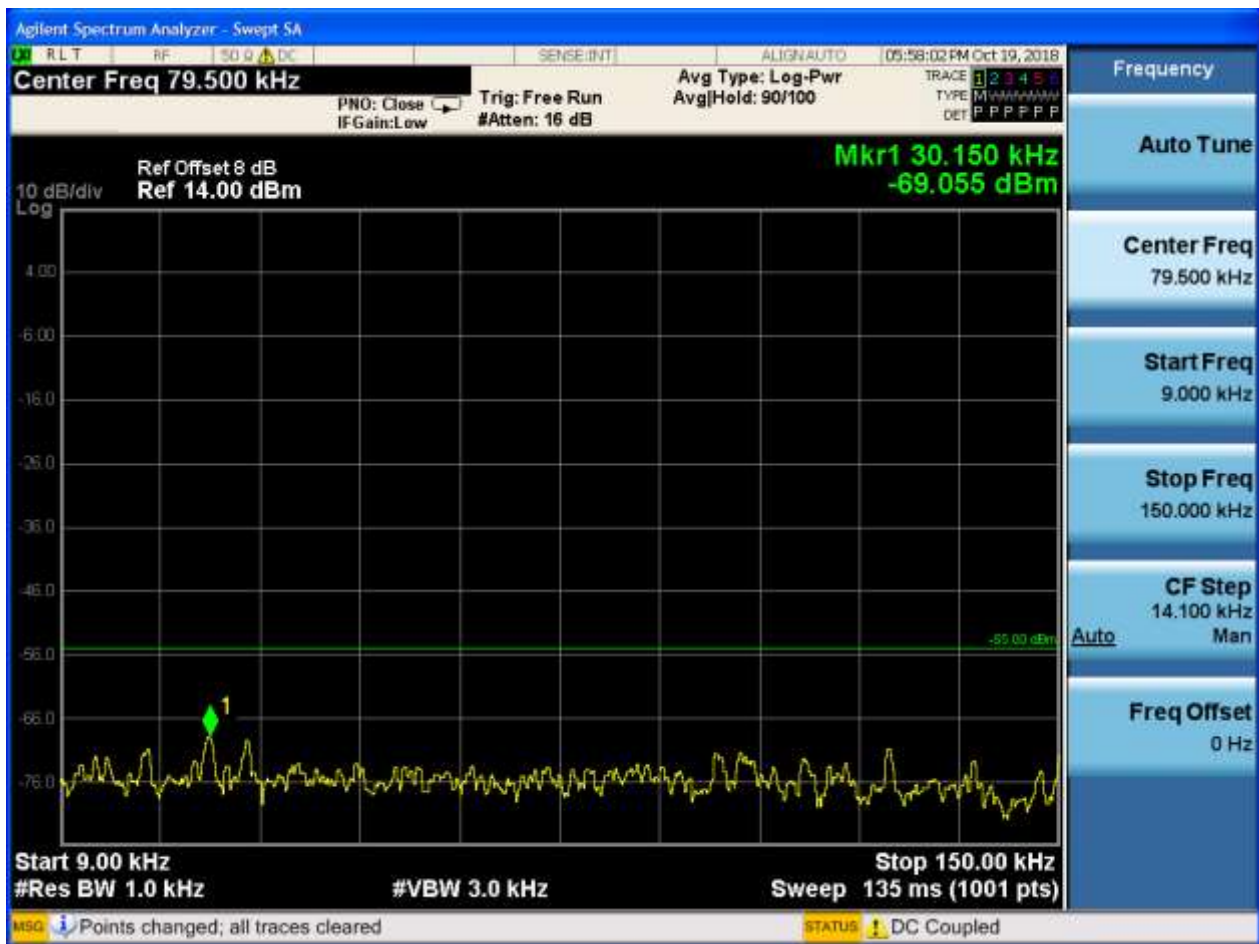




6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

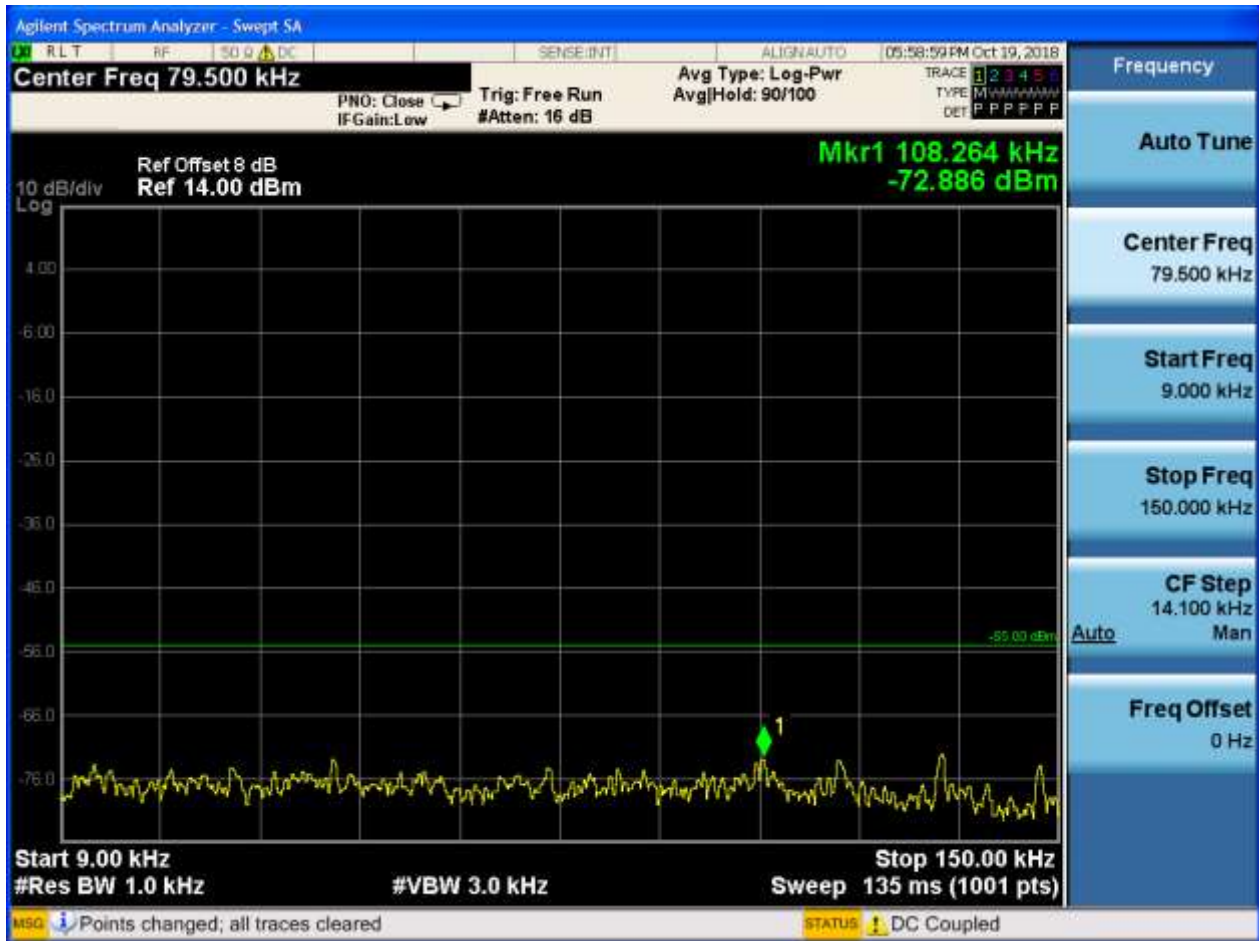






6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

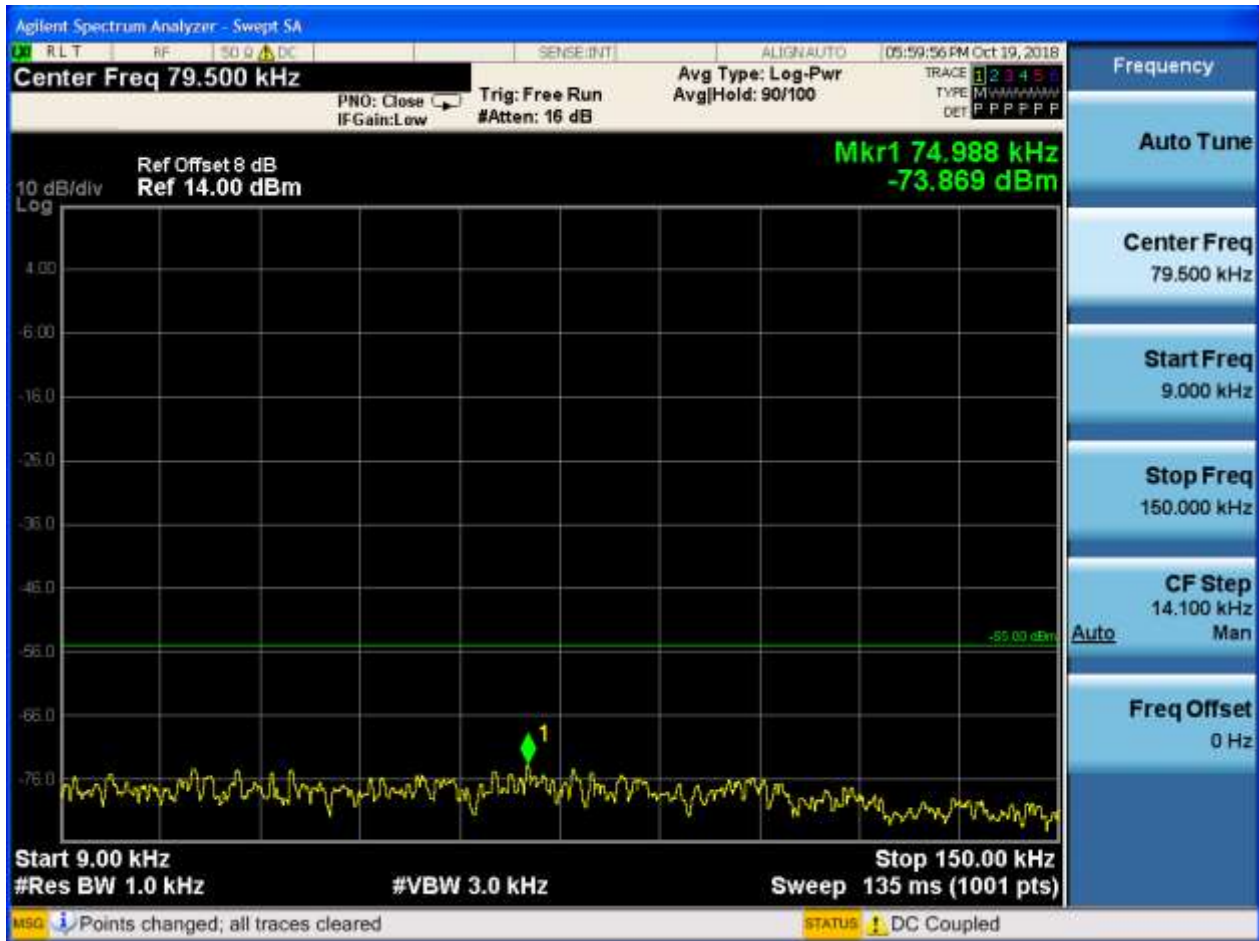






6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

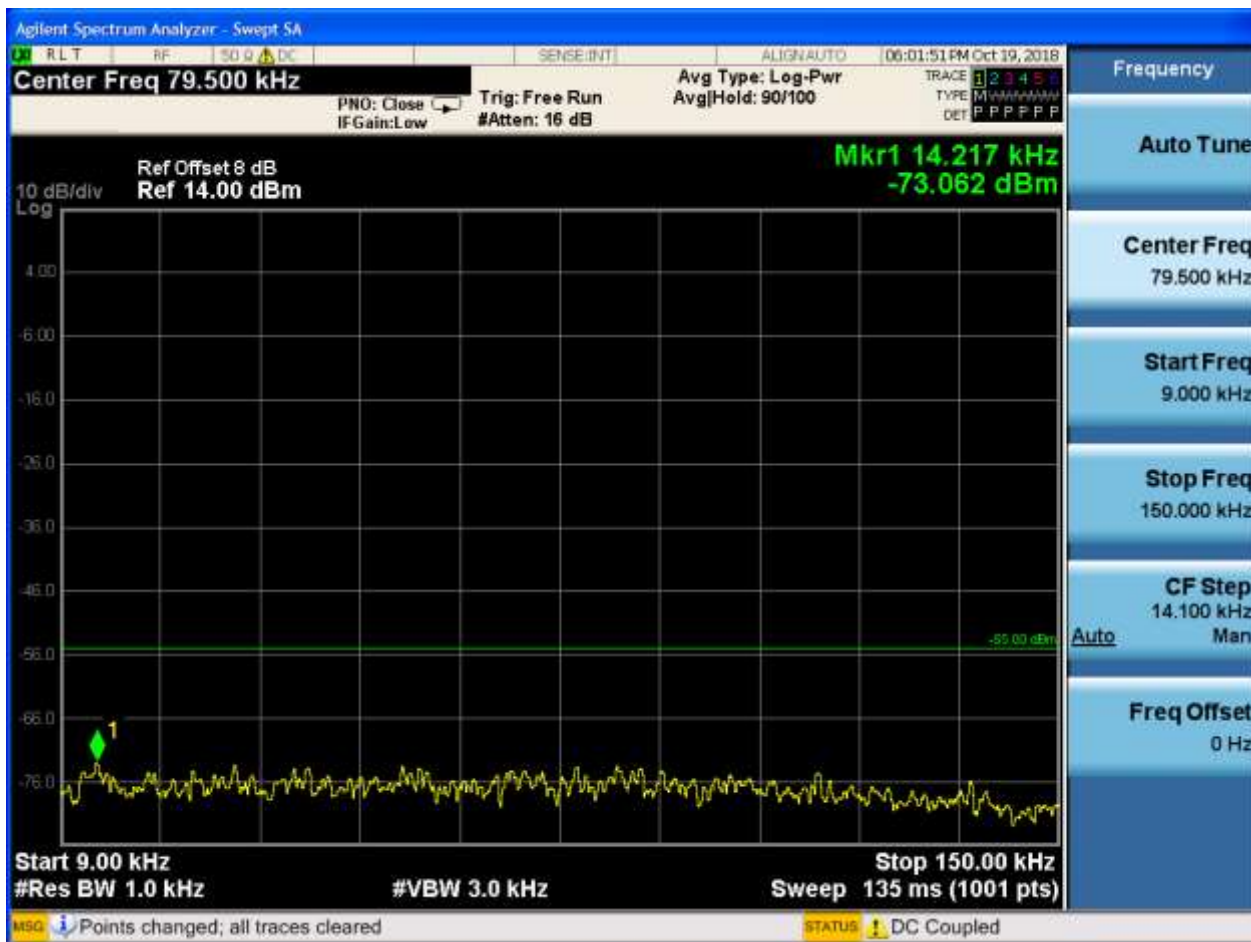






6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

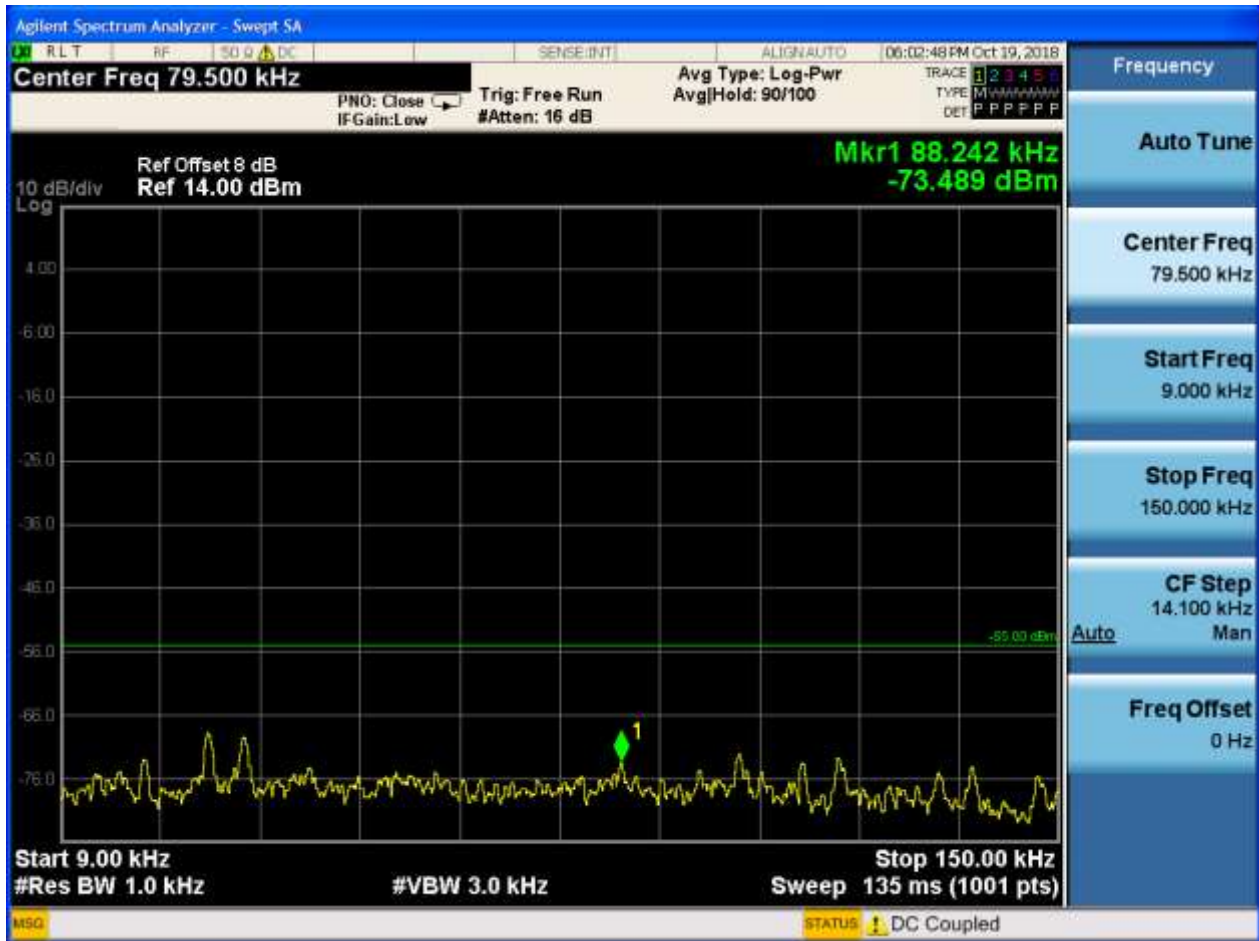






6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

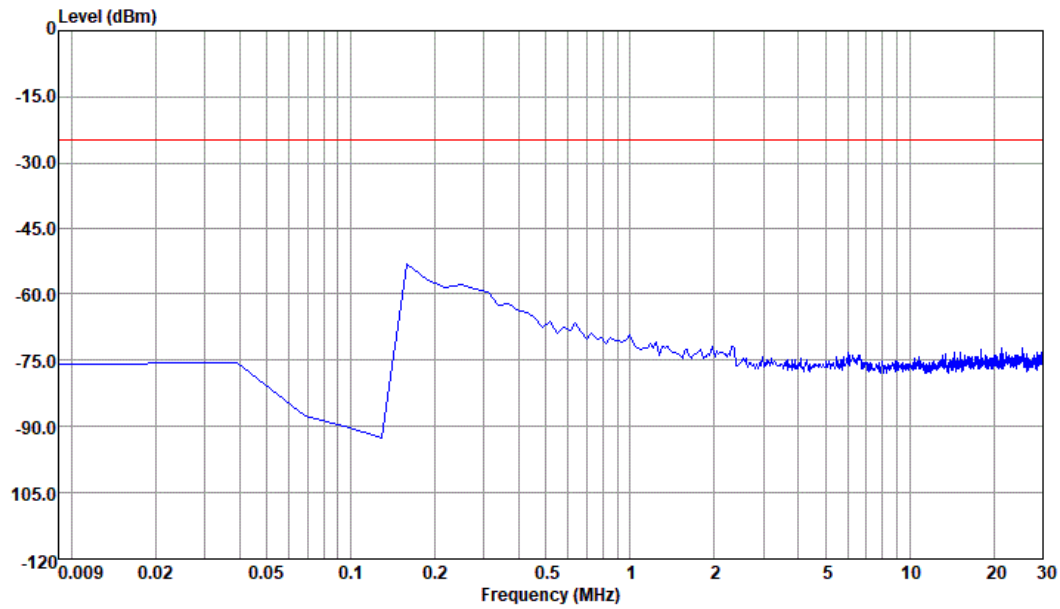
7.1 For LTE

7.1.1 Test Band = BAND2_ANT1

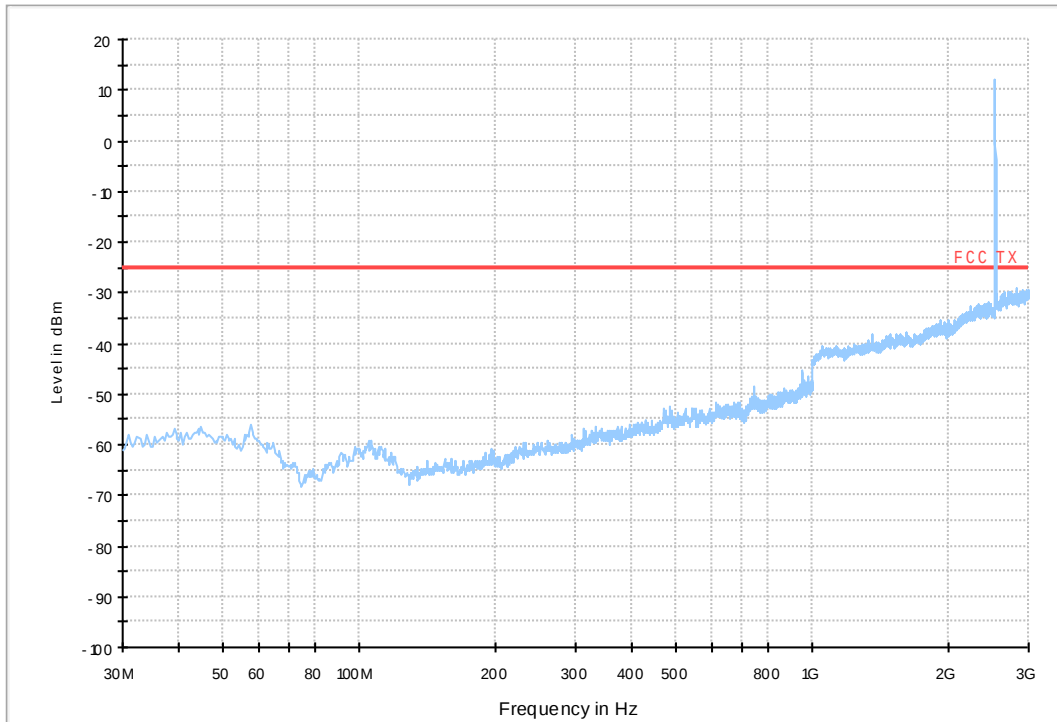
7.1.1.1 Test Bandwidth = 5



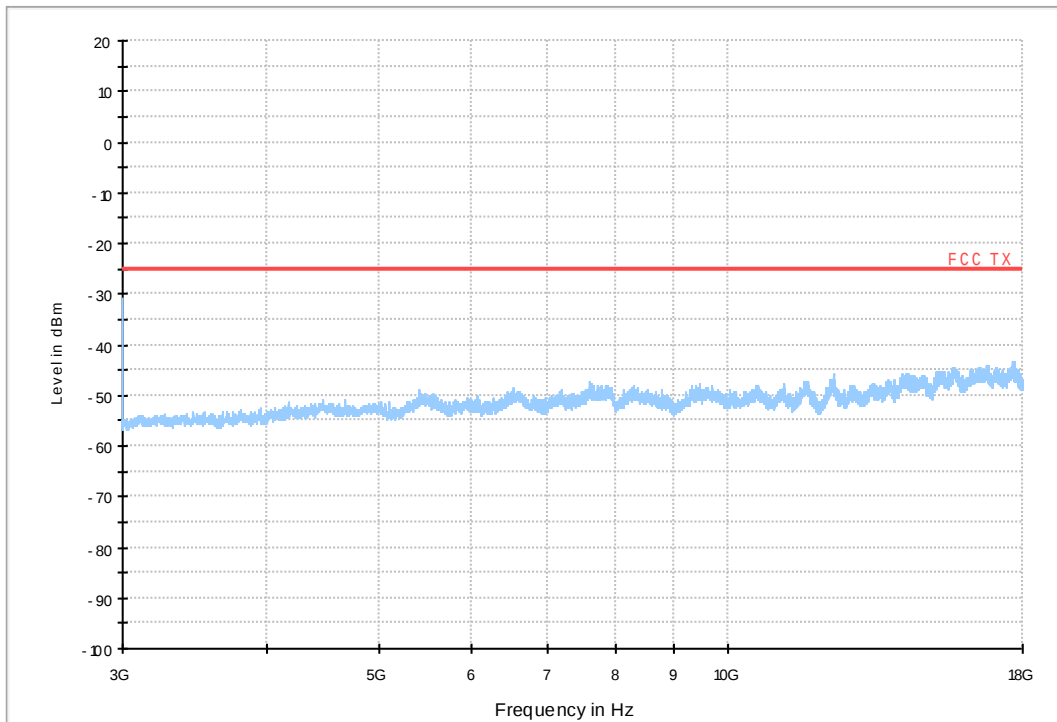
Data: 65



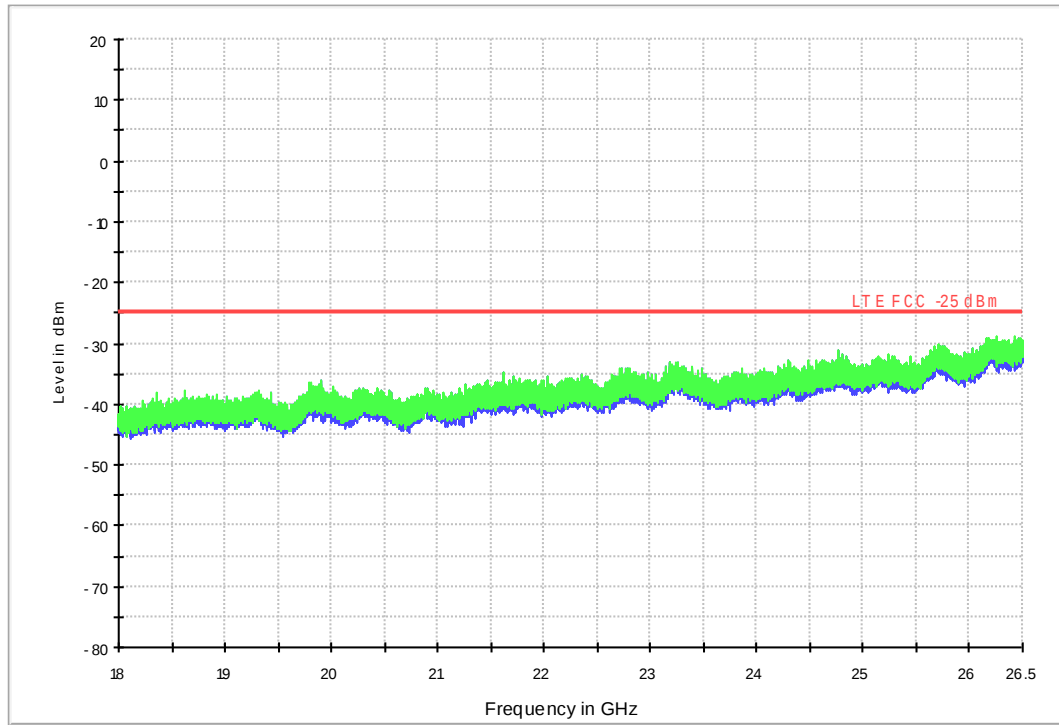
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



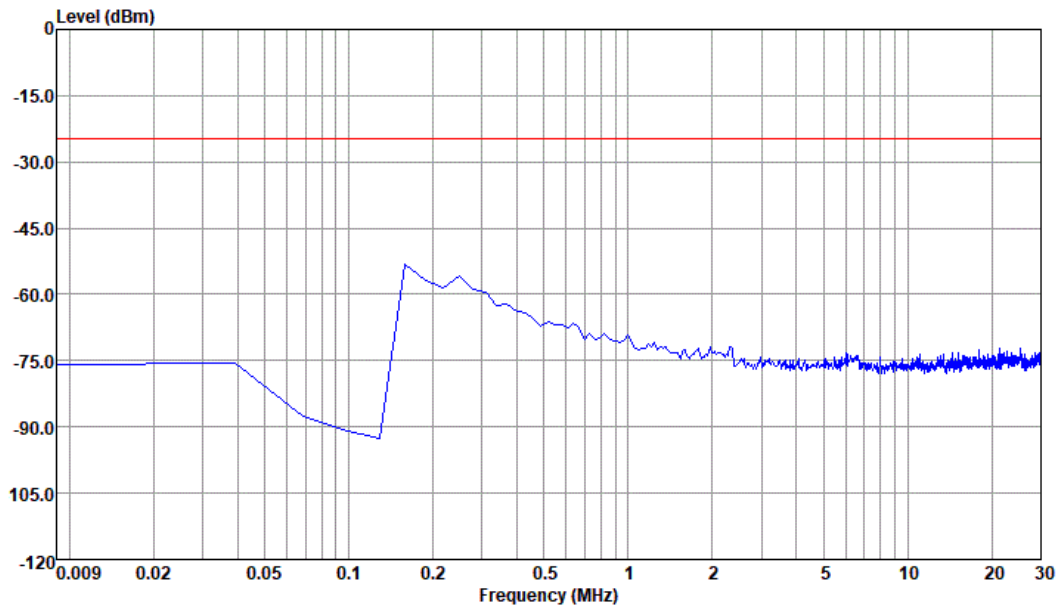
18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



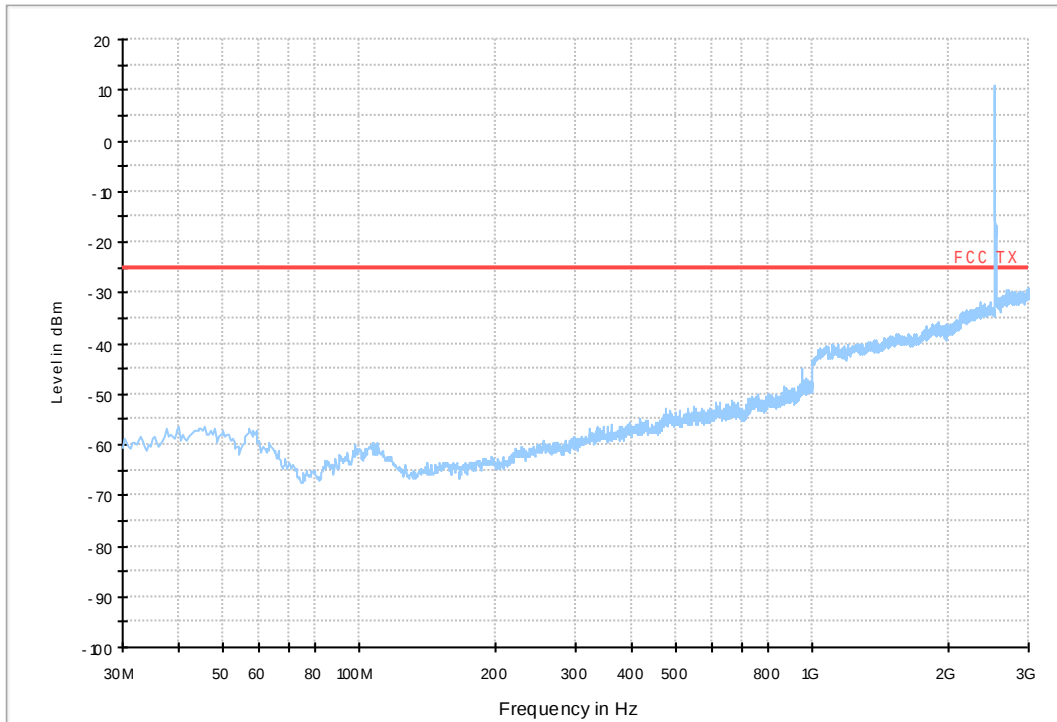
7.1.1.2 Test Bandwidth = 20



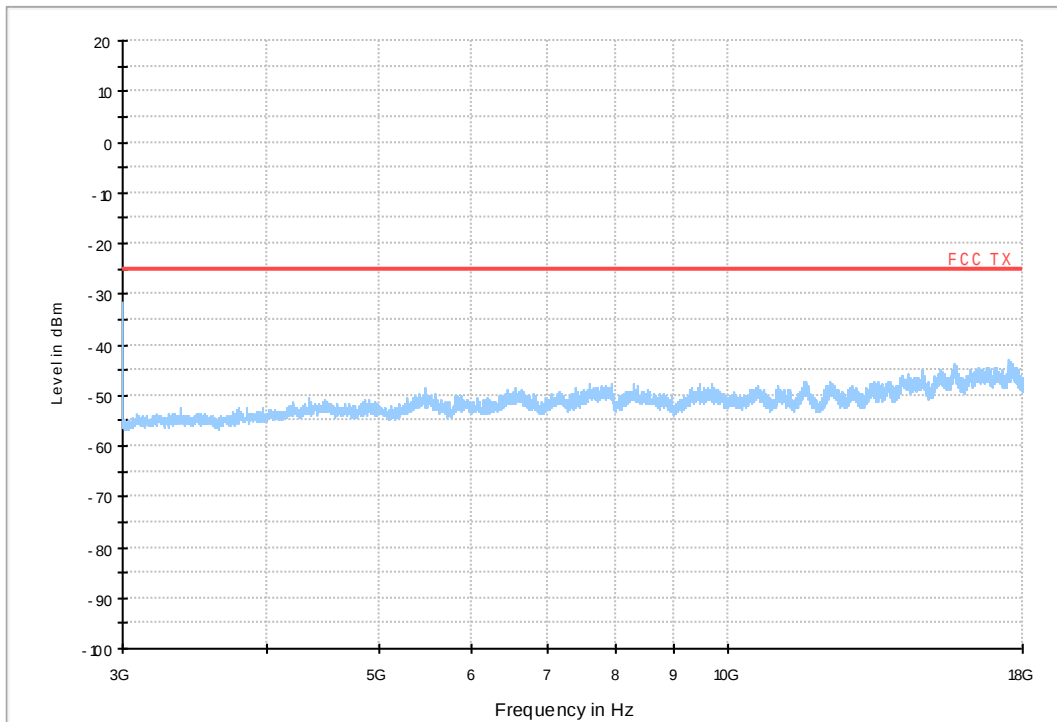
Data: 69



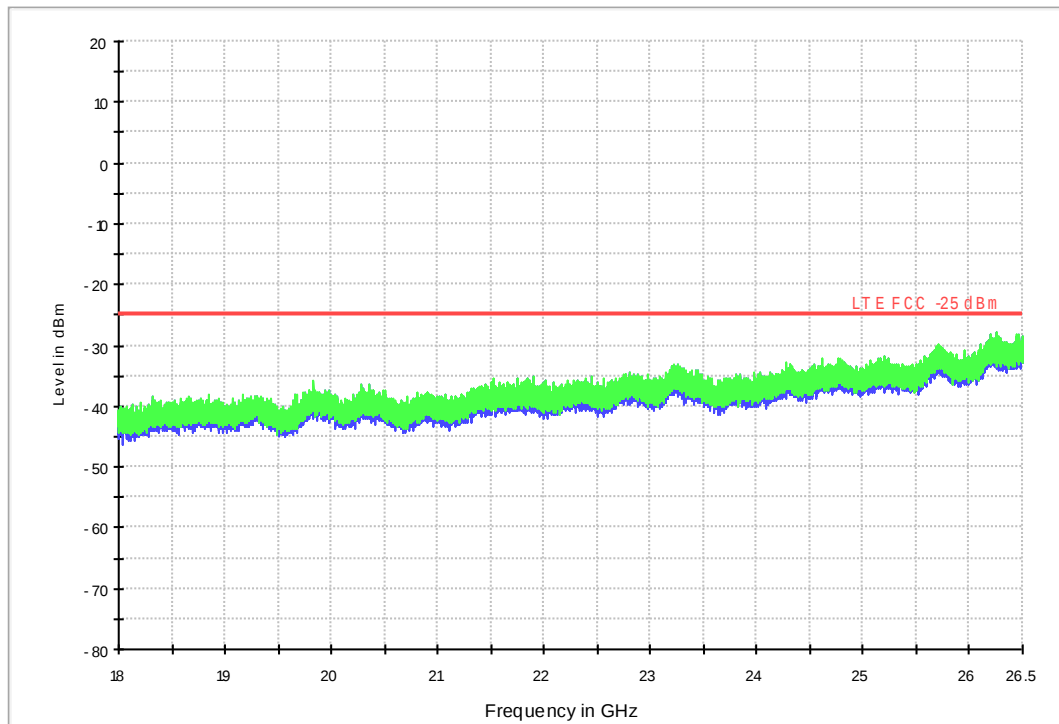
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

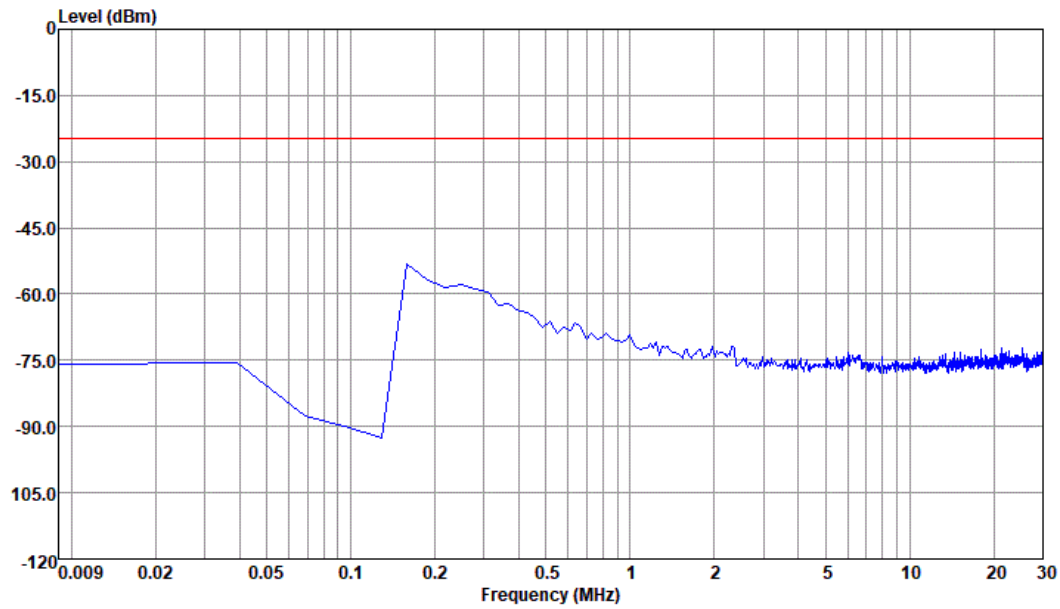


7.1.2 Test Band = BAND2_ANT2

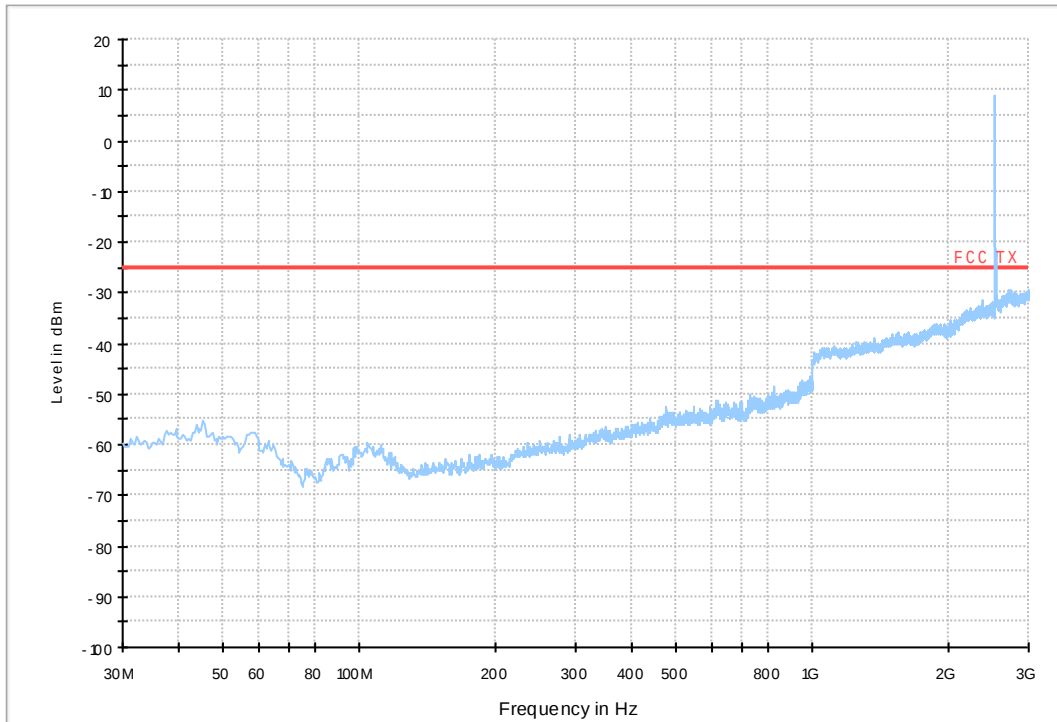
7.1.2.1 Test Bandwidth = 5



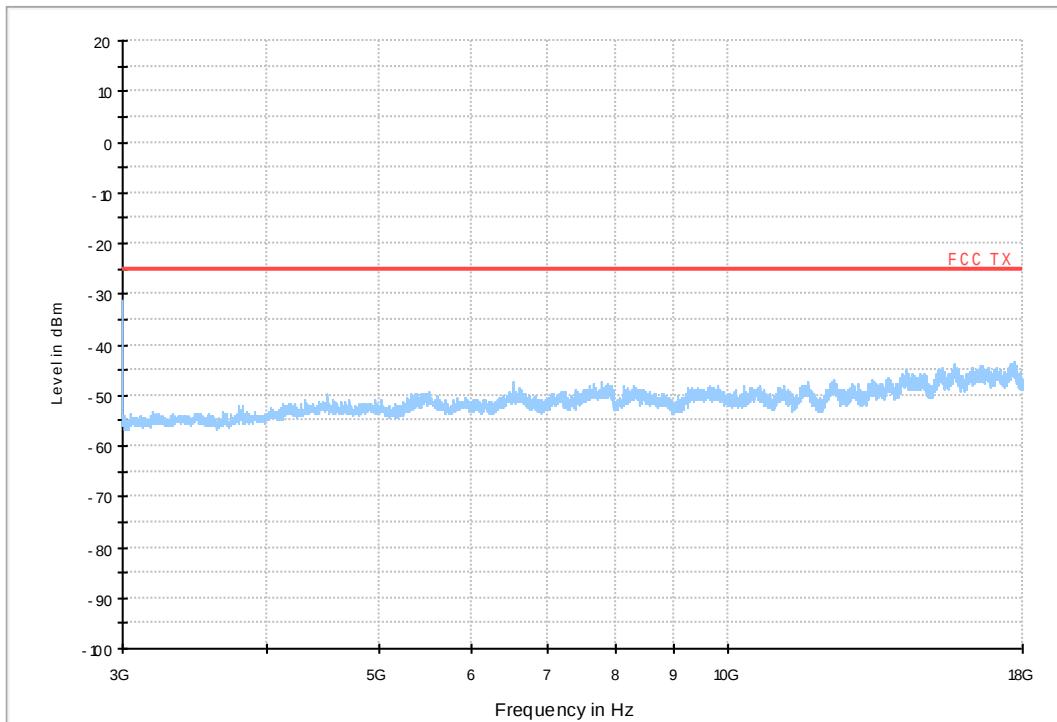
Data: 66



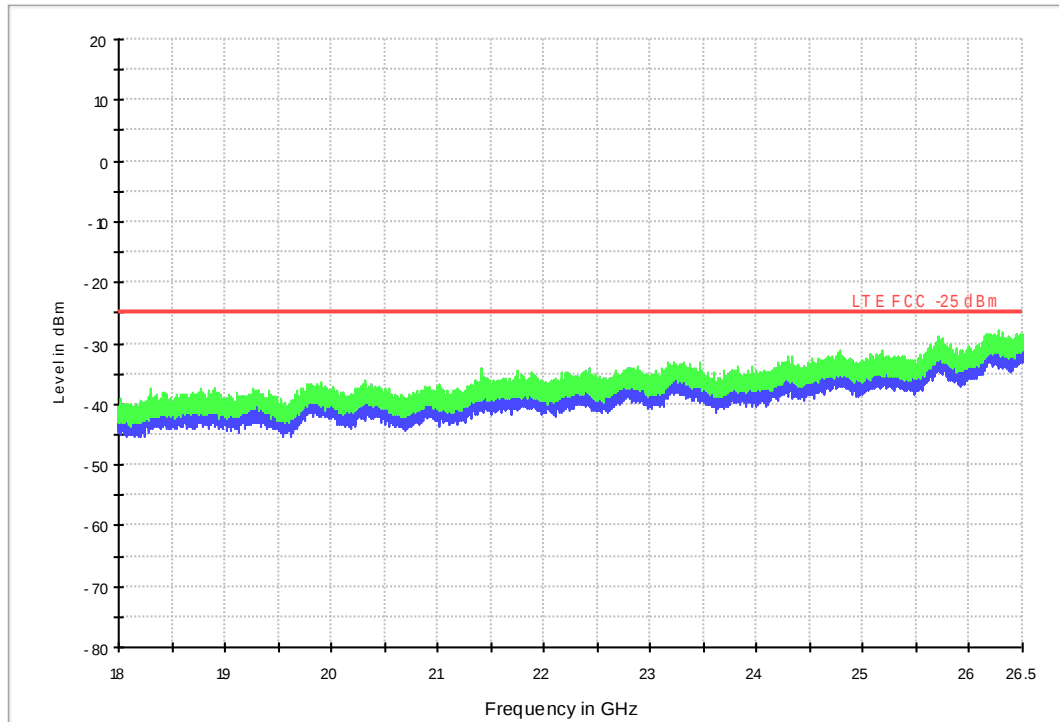
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



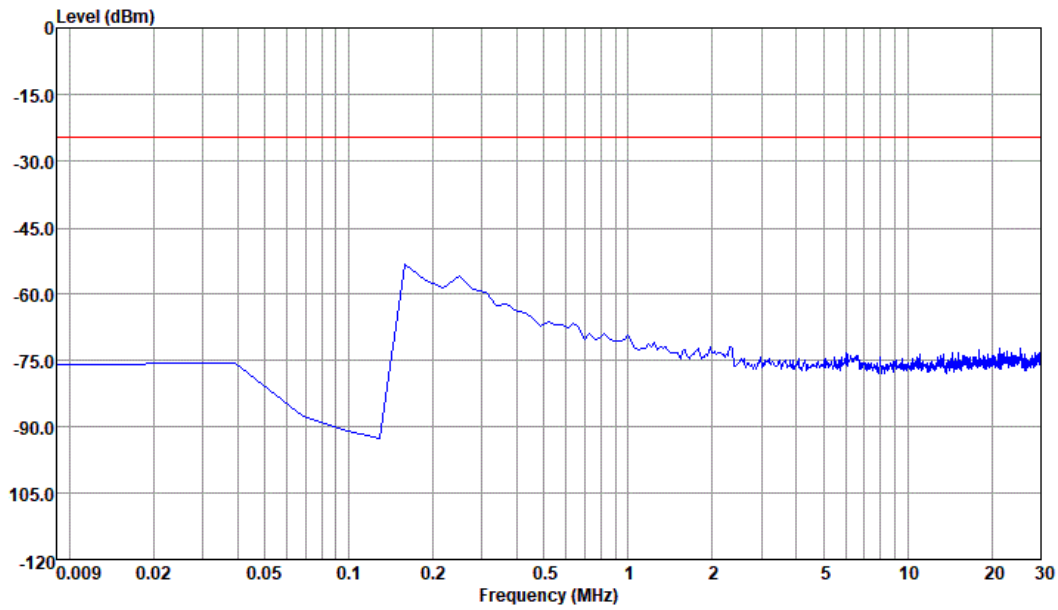
18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



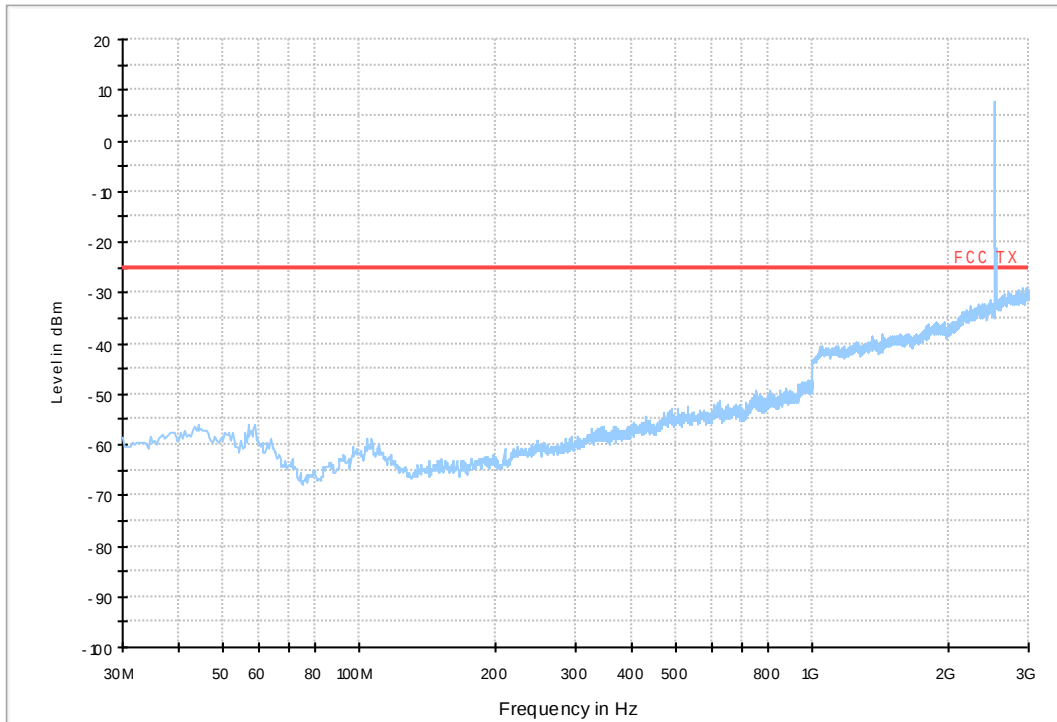
7.1.2.2 Test Bandwidth = 20



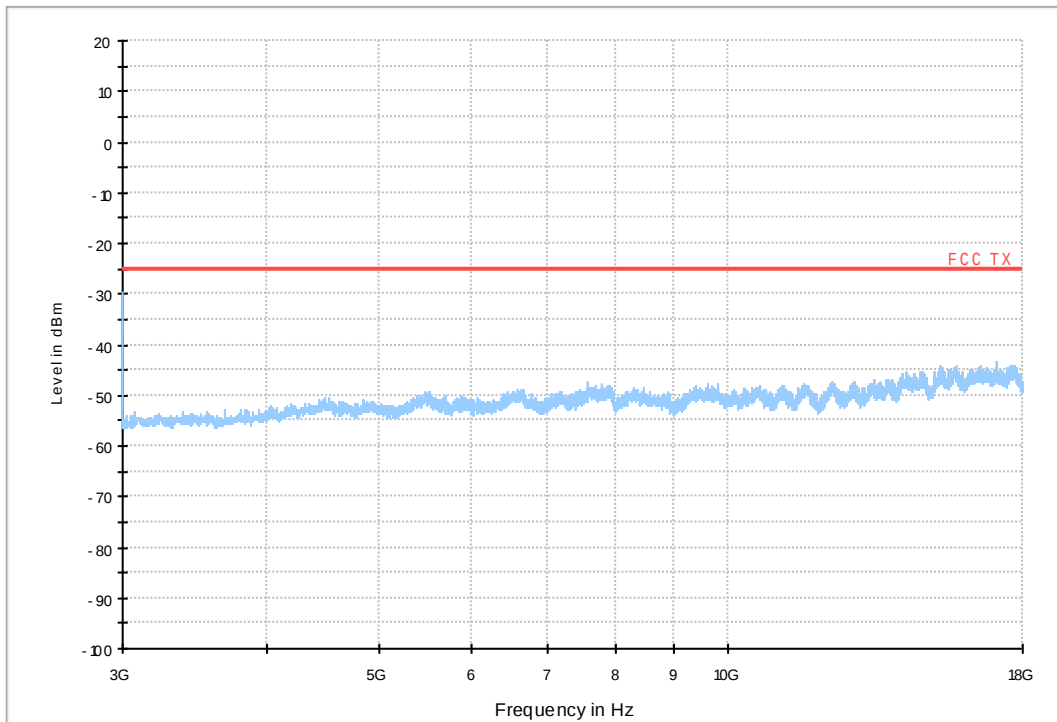
Data: 70



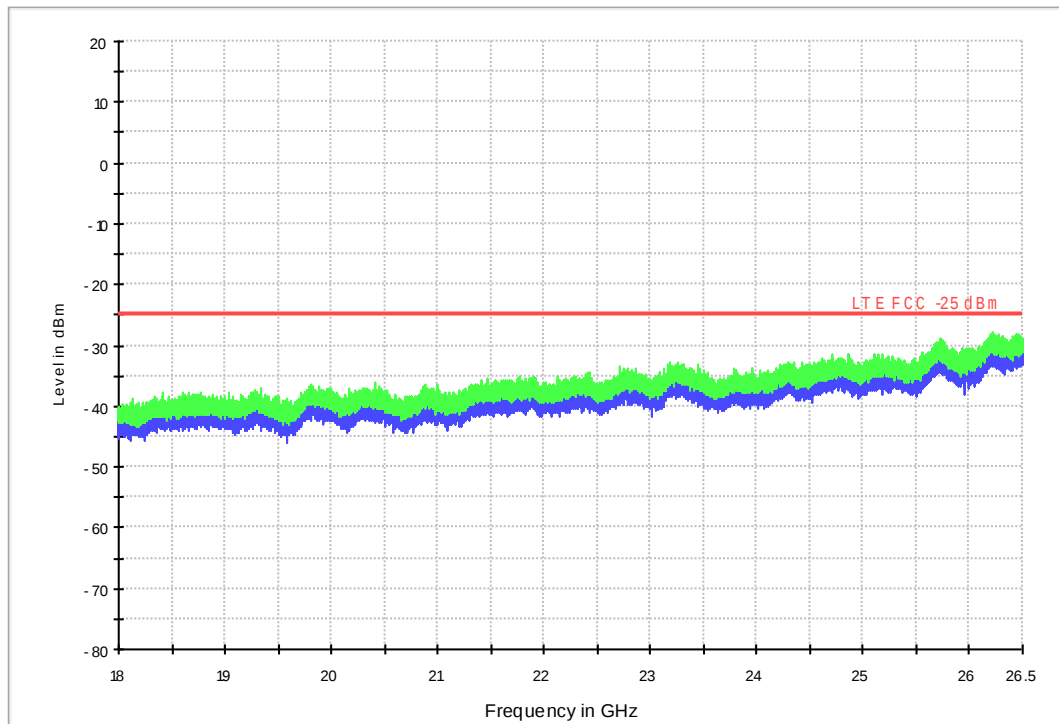
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	TN	VL	2.53	0.00101	PASS
					VN	-31.56	-0.01261	PASS
					VH	-38.32	-0.01531	PASS
			MCH	TN	VL	-2.47	-0.00097	PASS
					VN	-2.68	-0.00106	PASS
					VH	-3.83	-0.00151	PASS
			HCH	TN	VL	-1.39	-0.00054	PASS
					VN	-2.02	-0.00079	PASS
					VH	-2.52	-0.00098	PASS
		10	LCH	TN	VL	-1.27	-0.00051	PASS
					VN	-3.32	-0.00133	PASS
					VH	-5.06	-0.00202	PASS
			MCH	TN	VL	-1.46	-0.00058	PASS
					VN	-2.15	-0.00085	PASS
					VH	0.23	0.00009	PASS
			HCH	TN	VL	-17.58	-0.00685	PASS
					VN	-22.54	-0.00879	PASS
					VH	-2.76	-0.00108	PASS
		15	LCH	TN	VL	-11.96	-0.00477	PASS
					VN	0.89	0.00035	PASS
					VH	-12.19	-0.00486	PASS
			MCH	TN	VL	-1.57	-0.00062	PASS
					VN	-1.46	-0.00058	PASS
					VH	-16.58	-0.00654	PASS
			HCH	TN	VL	-3.15	-0.00123	PASS
					VN	-3.12	-0.00122	PASS
					VH	-2.29	-0.00089	PASS
		20	LCH	TN	VL	-1.42	-0.00057	PASS
					VN	-3.69	-0.00147	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				TN	VH	-2.42	-0.00096	PASS
					VL	-1.32	-0.00052	PASS
					VN	-1.95	-0.00077	PASS
			MCH	TN	VH	-1.49	-0.00059	PASS
					VL	-3.38	-0.00132	PASS
					VN	-2.92	-0.00114	PASS
			HCH	TN	VH	-3.2	-0.00125	PASS
					VL	-54.92	-0.02195	PASS
					VN	-0.11	-0.00004	PASS
	LTE/TM2	5	LCH	TN	VH	0.72	0.00029	PASS
					VL	-21.41	-0.00845	PASS
					VN	1.36	0.00054	PASS
			MCH	TN	VH	-2.76	-0.00109	PASS
					VL	0.66	0.00026	PASS
					VN	-18.78	-0.00731	PASS
			HCH	TN	VH	-21.9	-0.00853	PASS
					VL	1.75	0.0007	PASS
					VN	-0.96	-0.00038	PASS
		10	LCH	TN	VH	-1.26	-0.0005	PASS
					VL	0.5	0.0002	PASS
					VN	-0.67	-0.00026	PASS
			MCH	TN	VH	1.29	0.00051	PASS
					VL	-0.4	-0.00016	PASS
					VN	-1.73	-0.00067	PASS
			HCH	TN	VH	-1.57	-0.00061	PASS
					VL	1.06	0.00042	PASS
					VN	-1.22	-0.00049	PASS
		15	LCH	TN	VH	-8.73	-0.00348	PASS
					VL	0.64	0.00025	PASS
					VN	0.92	0.00036	PASS
			MCH	TN	VH	-0.09	-0.00004	PASS
					VL	-2.68	-0.00105	PASS
					VN	-2.65	-0.00103	PASS
			HCH	TN	VH	-0.6	-0.00023	PASS
					VL	-1.5	-0.0006	PASS
					VN	-1.52	-0.00061	PASS
		20	LCH	TN	VH	-1.53	-0.00061	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VL	-1.67	-0.00066	PASS
					VN	-1.65	-0.00065	PASS
					VH	-0.92	-0.00036	PASS
			HCH	TN	VL	-2.02	-0.00079	PASS
					VN	-1.89	-0.00074	PASS
					VH	-1.49	-0.00058	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	-5.16	-0.00206	PASS
					-20	-4.48	-0.00179	PASS
					-10	-27.55	-0.01101	PASS
					0	-5.69	-0.00227	PASS
					10	-1.23	-0.00049	PASS
					20	-34.92	-0.01395	PASS
					30	-0.8	-0.00032	PASS
					40	1.3	0.00052	PASS
					50	-0.17	-0.00007	PASS
			MCH	VN	-30	1.23	0.00049	PASS
					-20	-3.39	-0.00134	PASS
					-10	-1.26	-0.0005	PASS
					0	-0.93	-0.00037	PASS
					10	-0.14	-0.00006	PASS
					20	-5.85	-0.00231	PASS
					30	-3.72	-0.00147	PASS
					40	-2.35	-0.00093	PASS
					50	-0.36	-0.00014	PASS
			HCH	VN	-30	-3.91	-0.00152	PASS
					-20	0.1	0.00004	PASS
					-10	1.3	0.00051	PASS
					0	-1.4	-0.00055	PASS
					10	-0.1	-0.00004	PASS
					20	-28.85	-0.01124	PASS
					30	0.07	0.00003	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-1.34	-0.00052	PASS
					50	-0.8	-0.00031	PASS
		10	LCH	VN	-30	-0.04	-0.00002	PASS
					-20	-4.98	-0.00199	PASS
					-10	-3.65	-0.00146	PASS
					0	-3.53	-0.00141	PASS
					10	-1.69	-0.00067	PASS
					20	-0.89	-0.00036	PASS
					30	-2.17	-0.00087	PASS
					40	0.23	0.00009	PASS
					50	1.12	0.00045	PASS
			MCH	VN	-30	1.86	0.00073	PASS
					-20	-1.67	-0.00066	PASS
					-10	-2.47	-0.00097	PASS
					0	-0.23	-0.00009	PASS
					10	-1.99	-0.00079	PASS
					20	-2.7	-0.00107	PASS
					30	-0.56	-0.00022	PASS
					40	-0.51	-0.0002	PASS
					50	-3.19	-0.00126	PASS
			HCH	VN	-30	-13.5	-0.00526	PASS
					-20	-1.33	-0.00052	PASS
					-10	-0.59	-0.00023	PASS
					0	-1.89	-0.00074	PASS
					10	-10.37	-0.00404	PASS
					20	-3.08	-0.0012	PASS
					30	-0.34	-0.00013	PASS
					40	-0.73	-0.00028	PASS
					50	0.34	0.00013	PASS
		15	LCH	VN	-30	-7.82	-0.00312	PASS
					-20	-2.59	-0.00103	PASS
					-10	-0.89	-0.00035	PASS
					0	0.13	0.00005	PASS
					10	1.97	0.00079	PASS
					20	2.5	0.001	PASS
					30	-0.23	-0.00009	PASS
					40	1.57	0.00063	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20	MCH	VN	50	1.93	0.00077	PASS
					-30	1.27	0.0005	PASS
					-20	0.46	0.00018	PASS
					-10	-1.33	-0.00052	PASS
					0	2.86	0.00113	PASS
					10	-13.45	-0.00531	PASS
					20	-0.49	-0.00019	PASS
					30	0.73	0.00029	PASS
					40	-1.77	-0.0007	PASS
					50	-9.88	-0.0039	PASS
			HCH	VN	-30	-13.26	-0.00517	PASS
					-20	-7.64	-0.00298	PASS
					-10	-0.37	-0.00014	PASS
					0	-2.22	-0.00087	PASS
					10	-15.16	-0.00592	PASS
					20	-1.33	-0.00052	PASS
					30	-0.6	-0.00023	PASS
					40	-0.1	-0.00004	PASS
					50	-2.68	-0.00105	PASS
		20	LCH	VN	-30	0.4	0.00016	PASS
					-20	-1.89	-0.00075	PASS
					-10	-0.93	-0.00037	PASS
					0	-1.43	-0.00057	PASS
					10	-2.52	-0.001	PASS
					20	-2.92	-0.00116	PASS
					30	-1.92	-0.00076	PASS
					40	-1.24	-0.00049	PASS
					50	-0.72	-0.00029	PASS
			MCH	VN	-30	-1.6	-0.00063	PASS
					-20	-1.69	-0.00067	PASS
					-10	-1	-0.00039	PASS
					0	0.16	0.00006	PASS
					10	0.99	0.00039	PASS
					20	-0.31	-0.00012	PASS
					30	-0.41	-0.00016	PASS
					40	0.49	0.00019	PASS
					50	-0.04	-0.00002	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	-30	-1.83	-0.00071	PASS
					-20	-2.36	-0.00092	PASS
					-10	-2.39	-0.00093	PASS
					0	-3.25	-0.00127	PASS
					10	0.63	0.00025	PASS
					20	0.57	0.00022	PASS
					30	0.31	0.00012	PASS
					40	-0.69	-0.00027	PASS
					50	-0.41	-0.00016	PASS
	LTE/TM2	5	LCH	VN	-30	-28.75	-0.01149	PASS
					-20	1.22	0.00049	PASS
					-10	-33.82	-0.01351	PASS
					0	2.25	0.0009	PASS
					10	-32.29	-0.0129	PASS
					20	-28.25	-0.01129	PASS
					30	-0.01	0	PASS
					40	1.03	0.00041	PASS
					50	-2.25	-0.0009	PASS
			MCH	VN	-30	1.87	0.00074	PASS
					-20	2.4	0.00095	PASS
					-10	0.2	0.00008	PASS
					0	-35.68	-0.01407	PASS
					10	-35.31	-0.01393	PASS
					20	0.72	0.00028	PASS
					30	0.21	0.00008	PASS
					40	1.17	0.00046	PASS
					50	2.62	0.00103	PASS
			HCH	VN	-30	-0.73	-0.00028	PASS
					-20	-4.36	-0.0017	PASS
					-10	-23.8	-0.00927	PASS
					0	0.8	0.00031	PASS
					10	-0.37	-0.00014	PASS
					20	1.34	0.00052	PASS
					30	-2.92	-0.00114	PASS
					40	-21.51	-0.00838	PASS
					50	1.97	0.00077	PASS
		10	LCH	VN	-30	0.4	0.00016	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.23	0.00009	PASS
					-10	-3.19	-0.00127	PASS
					0	-1.53	-0.00061	PASS
					10	-1.27	-0.00051	PASS
					20	-3.13	-0.00125	PASS
					30	-0.56	-0.00022	PASS
					40	0.46	0.00018	PASS
					50	-3.36	-0.00134	PASS
			MCH	VN	-30	-2.12	-0.00084	PASS
					-20	-1.23	-0.00049	PASS
					-10	0.5	0.0002	PASS
					0	1.6	0.00063	PASS
					10	0.16	0.00006	PASS
					20	-3.18	-0.00125	PASS
					30	0	0	PASS
					40	-0.77	-0.0003	PASS
					50	-0.96	-0.00038	PASS
			HCH	VN	-30	-13.07	-0.0051	PASS
					-20	-15.12	-0.00589	PASS
					-10	-13.73	-0.00535	PASS
					0	-1.4	-0.00055	PASS
					10	-1.12	-0.00044	PASS
					20	-0.56	-0.00022	PASS
					30	-0.7	-0.00027	PASS
					40	-13.16	-0.00513	PASS
					50	-15.09	-0.00588	PASS
		15	LCH	VN	-30	-15.29	-0.0061	PASS
					-20	-14.75	-0.00588	PASS
					-10	0.39	0.00016	PASS
					0	1.63	0.00065	PASS
					10	-18.24	-0.00727	PASS
					20	2.32	0.00093	PASS
					30	1.7	0.00068	PASS
					40	2.52	0.001	PASS
					50	2.88	0.00115	PASS
			MCH	VN	-30	-17.24	-0.0068	PASS
					-20	-13.53	-0.00534	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	0.82	0.00032	PASS
					0	-0.07	-0.00003	PASS
					10	0.39	0.00015	PASS
					20	-1.66	-0.00065	PASS
					30	0.3	0.00012	PASS
					40	-10.59	-0.00418	PASS
					50	1.44	0.00057	PASS
			HCH	VN	-30	-1.65	-0.00064	PASS
					-20	-1.17	-0.00046	PASS
					-10	-11.79	-0.0046	PASS
					0	-0.53	-0.00021	PASS
					10	-2.07	-0.00081	PASS
					20	-2.8	-0.00109	PASS
					30	-1.6	-0.00062	PASS
					40	-0.62	-0.00024	PASS
					50	-9.34	-0.00364	PASS
		20	LCH	VN	-30	-3.1	-0.00124	PASS
					-20	-2.59	-0.00103	PASS
					-10	-3.88	-0.00155	PASS
					0	-0.33	-0.00013	PASS
					10	0.06	0.00002	PASS
					20	0.97	0.00039	PASS
					30	-0.5	-0.0002	PASS
					40	-1.09	-0.00043	PASS
					50	0.87	0.00035	PASS
			MCH	VN	-30	0.11	0.00004	PASS
					-20	0.9	0.00036	PASS
					-10	-1.8	-0.00071	PASS
					0	-1.62	-0.00064	PASS
					10	-0.26	-0.0001	PASS
					20	-0.39	-0.00015	PASS
					30	-0.94	-0.00037	PASS
					40	-1.99	-0.00079	PASS
					50	0.19	0.00007	PASS
			HCH	VN	-30	-0.56	-0.00022	PASS
					-20	-1.62	-0.00063	PASS
					-10	-0.93	-0.00036	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-0.96	-0.00038	PASS
					10	-0.3	-0.00012	PASS
					20	-3.28	-0.00128	PASS
					30	-0.67	-0.00026	PASS
					40	0.41	0.00016	PASS
					50	-0.24	-0.00009	PASS

END